

# **A SYSTEM AND METHOD FOR ENCODING AND DECODING DIGITAL DATA USING ACOUSTICAL TONES**

## **ABSTRACT OF THE DISCLOSURE**

A system and a method for the transmission and reception of digital data wirelessly using acoustic tones comprises an encoder, a data interleaving system, an error correction system, and a decoder. The digital data is decoded by using in-phase and quadrature filters and through a score based function that determines the data that was most likely transmitted.